



## Contents of *Animal Feed Science and Technology*, Volume 88

VOL. 88 NOS. 1–2

30 NOVEMBER 2000

Effect of methods of analysis and heat treatment on viscosity of wheat, barley and oats B. Svihus, D.H. Edvardsen (Ås, Norway), M.R. Bedford (Wiltshire, UK) and M. Gullord (Ilseng, Norway) . . . . .	1
Fermentation of the endosperm cell walls of monocotyledon and dicotyledon plant species by faecal microbes from pigs. The relationship between cell wall characteristics and fermentability H. van Laar, S. Tamminga, B.A. Williams and M.W.A. Verstegen (Wageningen, Netherlands) . .	13
Heat treatment of rapeseed meal increases phytate flow into the duodenum of sheep W.-Y. Park, T. Matsui (Kyoto, Japan), F. Yano (Wakayama, Japan) and H. Yano (Kyoto, Japan) .	31
The effect of bacterial inoculants on the fermentation and aerobic stability of whole crop wheat silage I. Filya (Bursa, Turkey), G. Ashbell, Y. Hen and Z.G. Weinberg (Bet Dagan, Israel). . . . .	39
Storage of pelleted wheat middlings in farm bins C. Reed, D. Trigo-Stockli, D.A. Blasi and F.J. Fairchild (Manhattan, KS, USA). . . . .	47
Influence of dietary rumen-degradable protein supply on rumen characteristics and carbohydrate fermentation in beef cattle offered high-grain diets S.M. Martín-Orue, J. Balcells, F. Vicente and C. Castrillo (Zaragoza, Spain) . . . . .	59
An in vitro method for the estimation of ileal crude protein and amino acids digestibility using the dialysis tubing for pig feedstuffs R.-L. Huang, Z.-L. Tan, T.-X. Xing, Y.-F. Pan and T.-J. Li (Hunan, PR China) . . . . .	79
Protein degradability and intestinal digestibility of blood meals: comparison of two processing methods M. de J. Marichal, M. Carriquiry, R. Pereda and R. San Martín (Montevideo, Uruguay). . . . .	91
<b>Short communications</b>	
Nutritive evaluation of some nitrogen and non-nitrogen fixing multipurpose tree species D.B.V. Ramana, S. Singh, K.R. Solanki and A.S. Negi (Jhansi, India) . . . . .	103
Laying performance of Japanese quail fed graded levels of neem ( <i>Azadirachta indica</i> ) kernel meal incorporated diets A.V. Elangovan, S.V.S. Verma, V.R.B. Sastry and S.D. Singh (Izatnagar, India) . . . . .	113
Performance of lambs fed expeller pressed and solvent extracted karanj ( <i>Pongamia pinnata</i> ) oil cake U. Ravi, P. Singh, A.K. Garg and D.K. Agrawal (Izatnagar, India) . . . . .	121

**Letters to the Editor**

Comments on "Effects of DL-methionine hydroxyanalogue (MHA) or DL-methionine (DL-Met) on N-retention in broiler chickens and pigs [A. Römer, H. Abel, <i>Anim. Feed Sci. Technol.</i> 81 (1999) 193–203]"	
M. Pack and D. Höhler (Hanau, Germany) . . . . .	129
Reply to "Letter to the Editor"	
H. Abel (Göttingen, Germany) . . . . .	133
<b>Book review</b> . . . . .	135

**VOL. 88 NOS. 3–4****29 DECEMBER 2000**

The use of near infrared spectroscopy to investigate the composition of silages and the rate and extent of cell-wall degradation	
D. Wilman, M. Field, S.J. Lister (Aberystwyth, UK) and D.I. Givens (Stratford-on-Avon, UK) . . . . .	139
Effects of fungal enzyme preparations on hydrolysis and subsequent degradation of alfalfa hay fiber by mixed rumen microorganisms in vitro	
V.L. Nsereko, D.P. Morgavi, L.M. Rode, K.A. Beauchemin and T.A. McAllister (Lethbridge, Canada) . . . . .	153
Microbial nitrogen production in growing heifers: direct measurement of duodenal flow of purine bases versus urinary excretion of purine derivatives as estimation procedures	
S.M. Martín-Orúe, J. Balcells, J.A. Guada and M. Fondevila (Zaragoza, Spain) . . . . .	171
Cellulase treatment of untreated and steam pre-treated rice straw — effect on in vitro fermentation characteristics	
J.X. Liu (Hangzhou, PR China) and E.R. Ørskov (Scotland, UK) . . . . .	189
Influence of an anaerobic fungal culture administration on in vivo ruminal fermentation and nutrient digestion	
S.S. Lee, J.K. Ha (Suweon, South Korea) and K.-J. Cheng (Taipei, Taiwan) . . . . .	201
Effects of multivitamin blocks and polyethylene glycol 4000 supplies on intake and digestion by sheep fed <i>Acacia cyanophylla</i> Lindl. foliage-based diets	
N. Moujahed (Mograne, Tunisia), C. Kayouli (Tunis Mahragène, Tunisia), A. Thewis, Y. Beckers (Gembloux, Belgium) and S. Rezgui (Mograne, Tunisia) . . . . .	219
Nutritive value of coarse and fine wheat brans for rabbits	
E. Blas, J. Fernández-Carmona, C. Cervera and J.J. Pascual (Valencia, Spain) . . . . .	239
Feed selection and dietary preferences of forage by small ruminants grazing natural pastures in the Sahelian zone of Cameroon	
A.T. Ngwa, D.K. Pone and J.M. Mafeni (Mankon, Cameroon) . . . . .	253
<b>Book reviews</b> . . . . .	267
<b>Contents of <i>Animal Feed Science and Technology</i>, Volume 88</b> . . . . .	271

